

**IN THE CLAIMS**

This listing of claims replaces all prior versions in this application.

Claims 1-21 (canceled)

22. (currently amended) A process for preparing a human cancer cell-transplanted nude mouse or nude rat comprising:

- (a) preparing a cell culture support coated on a surface, wherein the cell culture support is comprised of a polymer, which is homo- [[and/]]or co-polymer of N-isopropylacrylamide;
- (b) cultivating the human cancer cells on the cell culture support at a temperature at which the polymer is dehydrated;
- (c) cooling the cell culture support to a temperature at which the polymer is hydrated, whereby a sheet of the human cancer cells is detached from the cell culture support; and
- (d) transplanting the sheet of cancer cells to a specified site of a nude mouse or nude rat;

said process being performed without ethyleneglycol bis(2-aminoethylether) tetraacetic acid.

Claims 23-24 (canceled)

25. (withdrawn) A human cancer cell-transplanted nude mouse or nude rat prepared by the process according to claim 22.

26. (previously presented) A method of selecting an anti-tumor agent comprising: administering a test substance to a human cancer cell-transplanted nude mouse or nude rat prepared according to claim 22 and

selecting a test substance that reduces volume and/or weight of a tumor formed from the sheet of human cancer cells.

27. (currently amended) A process for preparing a human cancer cell-transplanted nude mouse or nude rat comprising:

- (a) preparing a cell culture support coated on a surface with a polymer, which is a homo- ~~[[and/]]~~ or co-polymer of N-isopropylacrylamide;
- (b) cultivating the human cancer cells on the ~~cell~~ ~~cell~~ culture support at a temperature of above a lower critical solution temperature of the homo- or co-polymer of N-isopropylacrylamide at which the polymer has weak hydration force;
- (c) cultivating the human cancer cells on the support at a temperature of a lower critical solution temperature of the homo- or co-polymer of N-isopropylacrylamide or below at which the polymer has a strong hydration force, whereby the cultivated human cancer cells are detached from the cell culture support; and
- (d) transplanting the detached human cancer cells to a specified site of a nude mouse or nude rat on which transplantation is to be performed; said process being performed without ethyleneglycol bis(2-aminoethylether) tetraacetic acid.

28. (previously presented) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 27, wherein the detached human cancer cells are in a sheet form.

29. (currently amended) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 28~~[[,]]~~ further comprising preparing the detached human cancer cells in sheet form into a specific shape ~~wherein a human cancer cell sheet to be transplanted is~~

~~prepared in a specified shape of a specified size so that the size and/or shape of cancer tissue in the nude mouse or nude rat is controlled.~~

30. (previously presented) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 27, wherein a carrier is placed in contact over the cultivated human cancer cells at the end of cultivation and the human cancer cells are detached intact together with the carrier.

31. (currently amended) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 27, wherein the human cancer cells are of a ~~transplantable~~ cell line.

32. (currently amended) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 31, wherein the transplantable cell line is selected from the group consisting of HBC-4, BSY-1, HBC-5, MCF-5, MCF-7, MDA-MB-231, U251, SF-268, SF-295, SF-539, SNB-75, SNB-78, HCC2998, KM-12, HT-29, WiDr, HCT-15, HCT-116, NCI-H23, NCI-H226, NIC-H522, NCI-H460, A549, DMS273, DMS114, LOX-IMVI, OVCAR-3, OVCAR-4, OVCAR-5, OVCAR-8, SK-OV-3, RXF-631L, ACHN, St-4, MKN1, MKN7, MKN28, MKN45, ~~[[and]] MKN74, MGT-40, MGT-90, CS-C9 and CS-C20.~~

Claims 33-34 (canceled)

35. (currently amended) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 27, wherein the human cancer cells are collected from a ~~living~~ tissue.

36. (previously presented) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 27, wherein no more than  $8 \times 10^5$  cells are transplanted.

Claims 37-39 (canceled)

40. (withdrawn) A cancer cell-transplanted nude mouse or nude rat prepared by the process according to claim 27.

41. (currently amended) A method of selecting an anti-tumor agent comprising administering a test substance to a nude mouse or nude rat by the process according to claim 27 before and/or after transplanting step (d) ~~human cancer cells therein during preparation of a human cancer cell-transplanted nude mouse or nude rat by the process according to claim 27~~ and evaluating the effect of the administered test substance on tumor formation.

42. (previously presented) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim 22, wherein the human cancer cells are detached from the cell culture support without being treated with a proteolytic enzyme.

43. (currently amended) The process for preparing a human cancer cell-transplanted nude mouse or nude rat according to claim ~~[[22]]~~ 27, wherein the human cancer cells are detached from the cell culture support without being treated with a proteolytic enzyme.